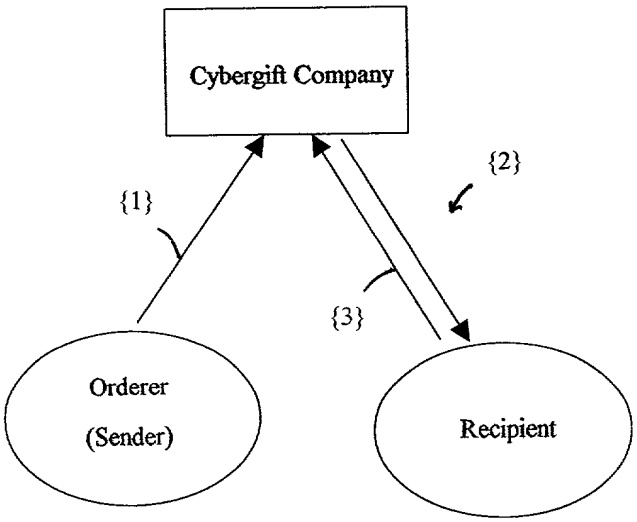
Fig. 1



{1} Accepting an order

- Ordinary order for purchase of merchandise
- Order for purchase of gift merchandise

{2} Contacting the recipient

(1) To inform

(2) To present option to select

{3} Selection

(1) Exchange

(2) Take

(3) Credit

{4} Implementing procedures

09999999 - 1552204

Fig. 2

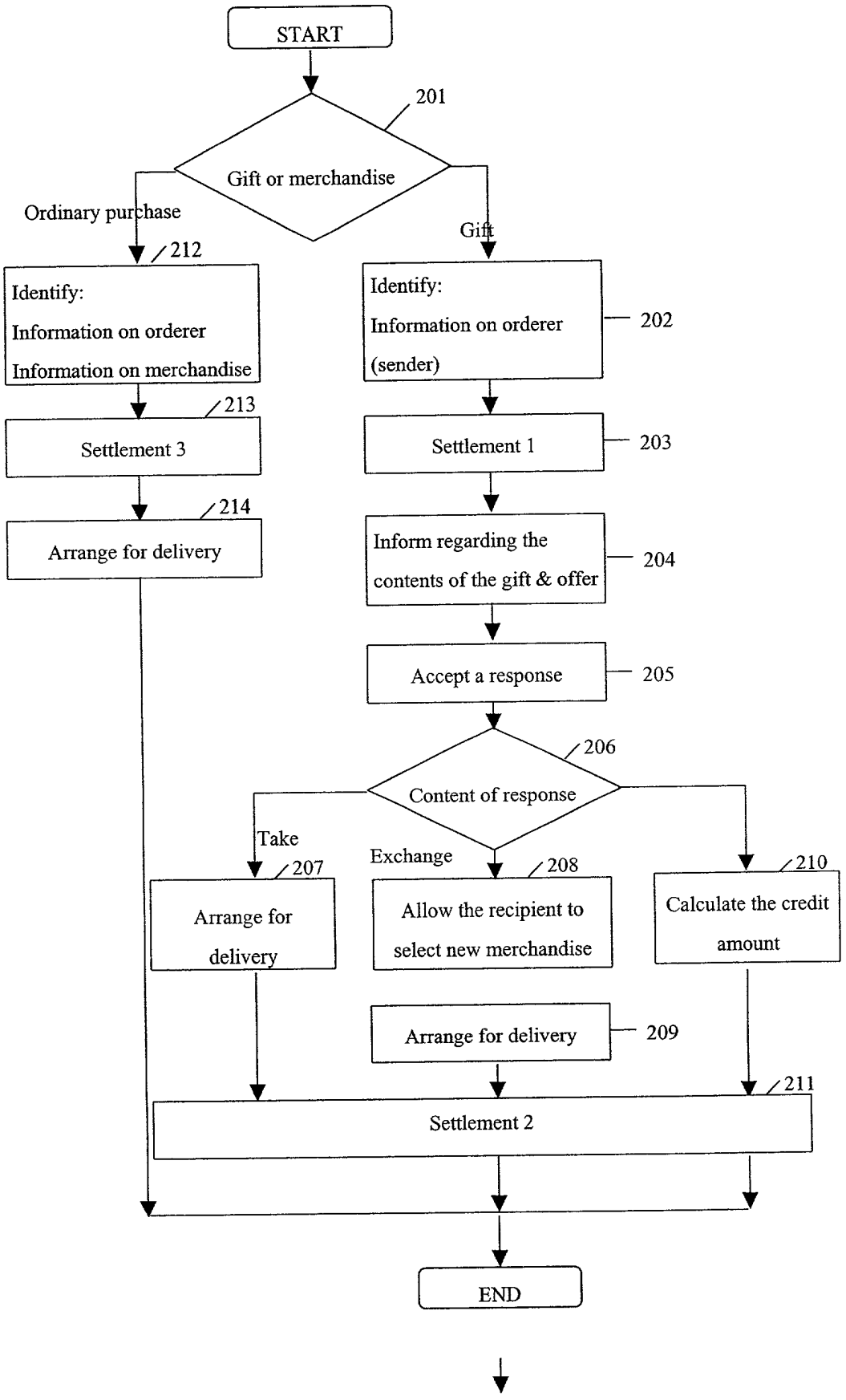

START
201
Gift or merchandise
Ordinary purchase
Gift
212
Identify:
Information on orderer
Information on merchandise
Identify:
Information on orderer
(sender)
202
213
Settlement 3
Settlement 1
203
214
Arrange for delivery
Inform regarding the
contents of the gift & offer
204
Accept a response
205
206
Content of response
Take
Exchange
207
208
210
Arrange for
delivery
Allow the recipient to
select new merchandise
Calculate the credit
amount
Arrange for delivery
209
211
Settlement 2
END

Fig. 3

Fig. 3A

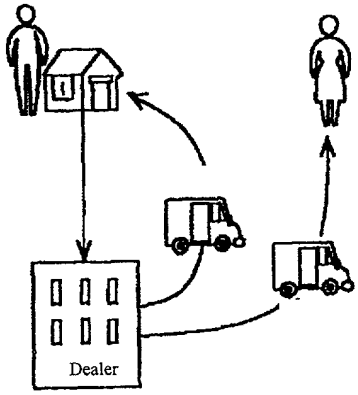


Fig. 3B

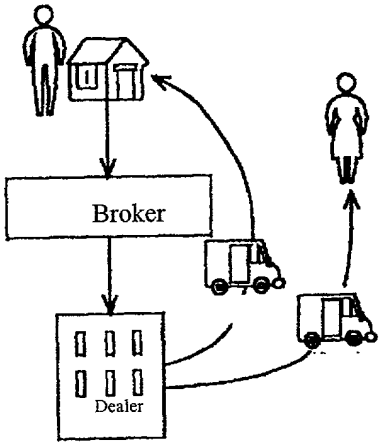


Fig. 3C

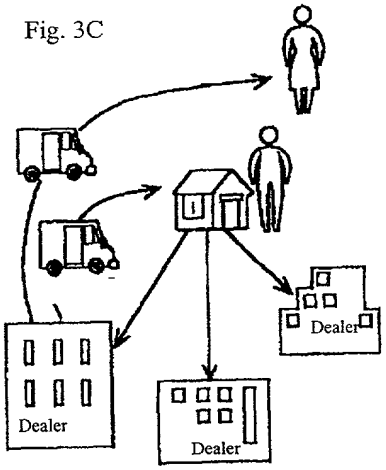


Fig. 3D

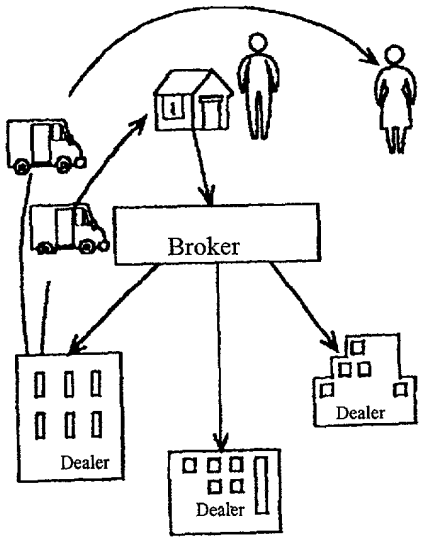


Fig. 4

	Brokerage fee	Nomination fee	Credit-service fee
A	-	-	-
B	○	-	-
C	-	○	○
D	○	○	○

Fig. 5

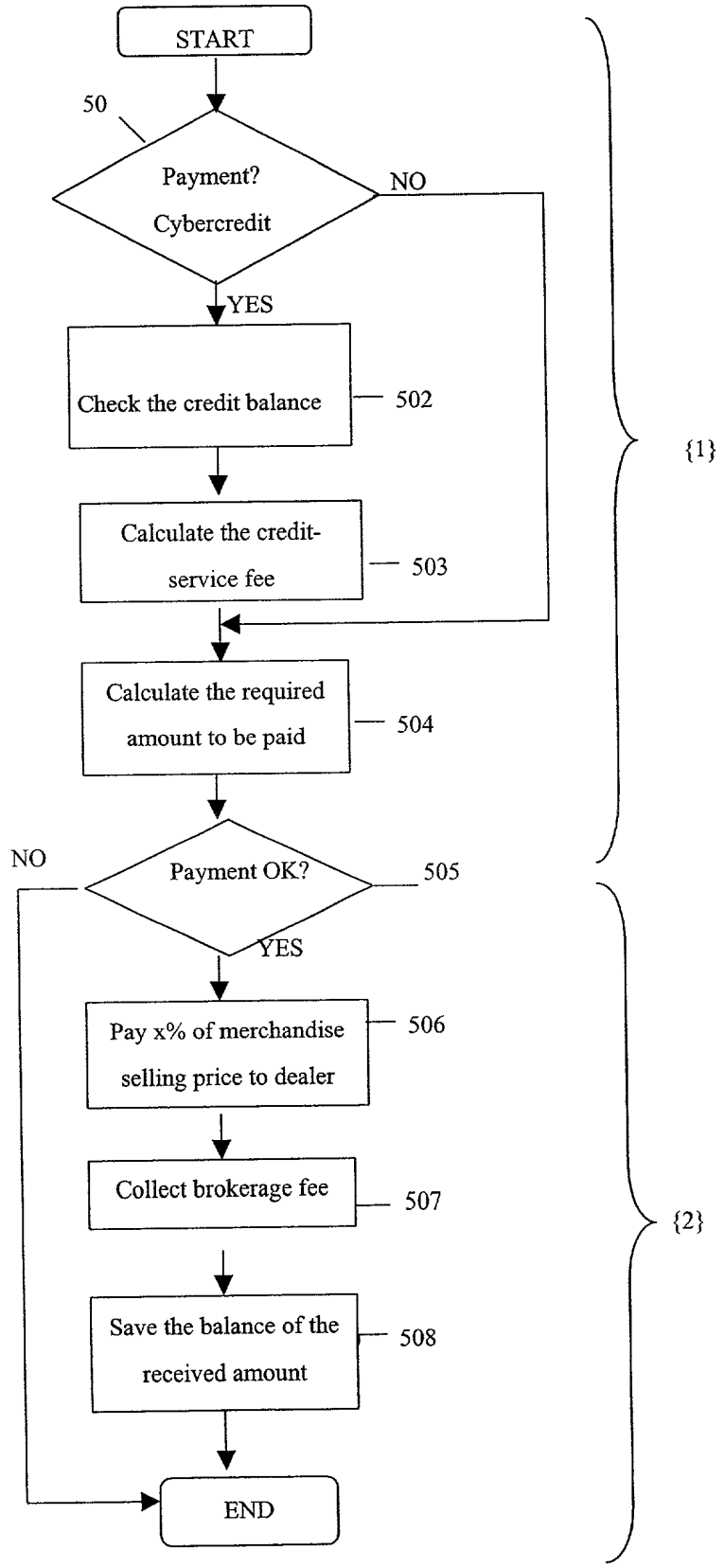

START
50
Payment?
Cybercredit
NO
YES
Check the credit balance
502
Calculate the credit-service fee
503
Calculate the required amount to be paid
504
NO
Payment OK?
505
YES
Pay x% of merchandise selling price to dealer
506
Collect brokerage fee
507
Save the balance of the received amount
508
END
{1}
{2}

Fig. 6

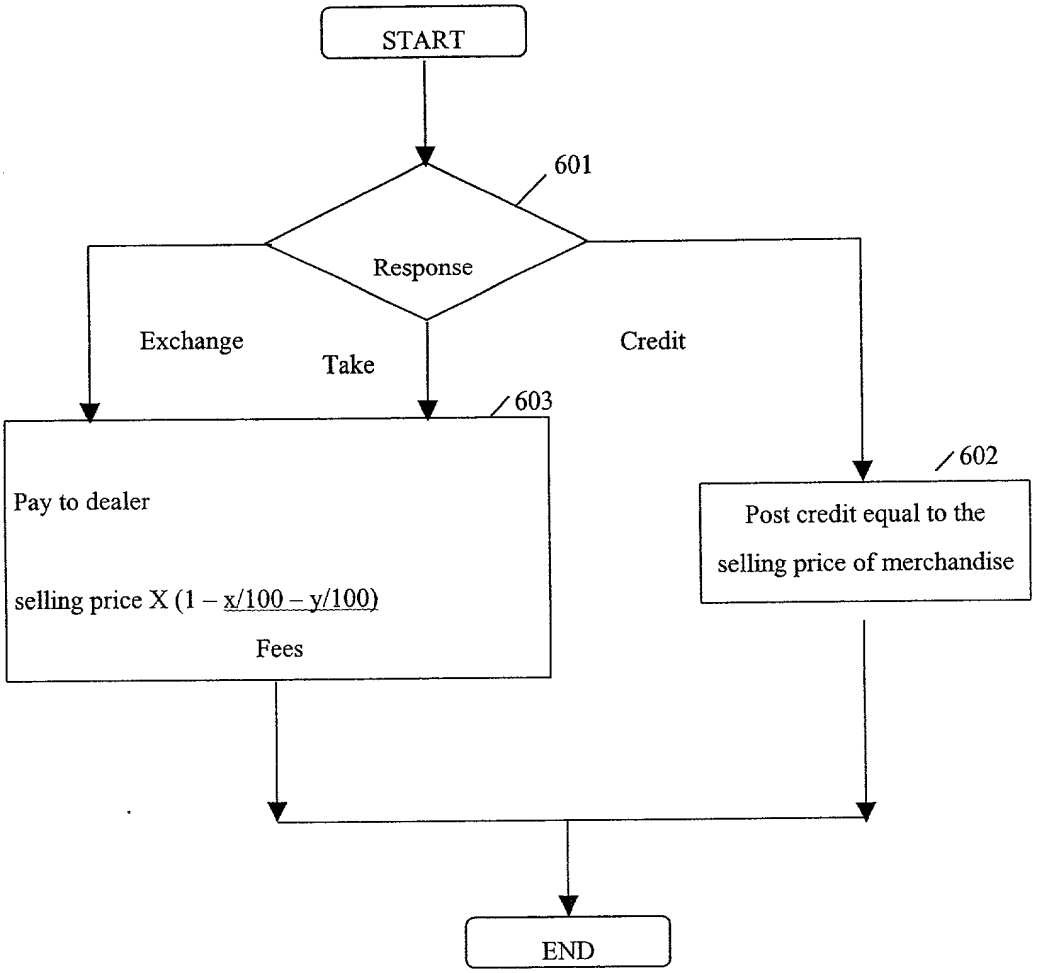

START
601
Response
Exchange
Take
Credit
603
602
Pay to dealer
selling price X (1 – x/100 – y/100)
Fees
Post credit equal to the
selling price of merchandise
END

Fig. 7

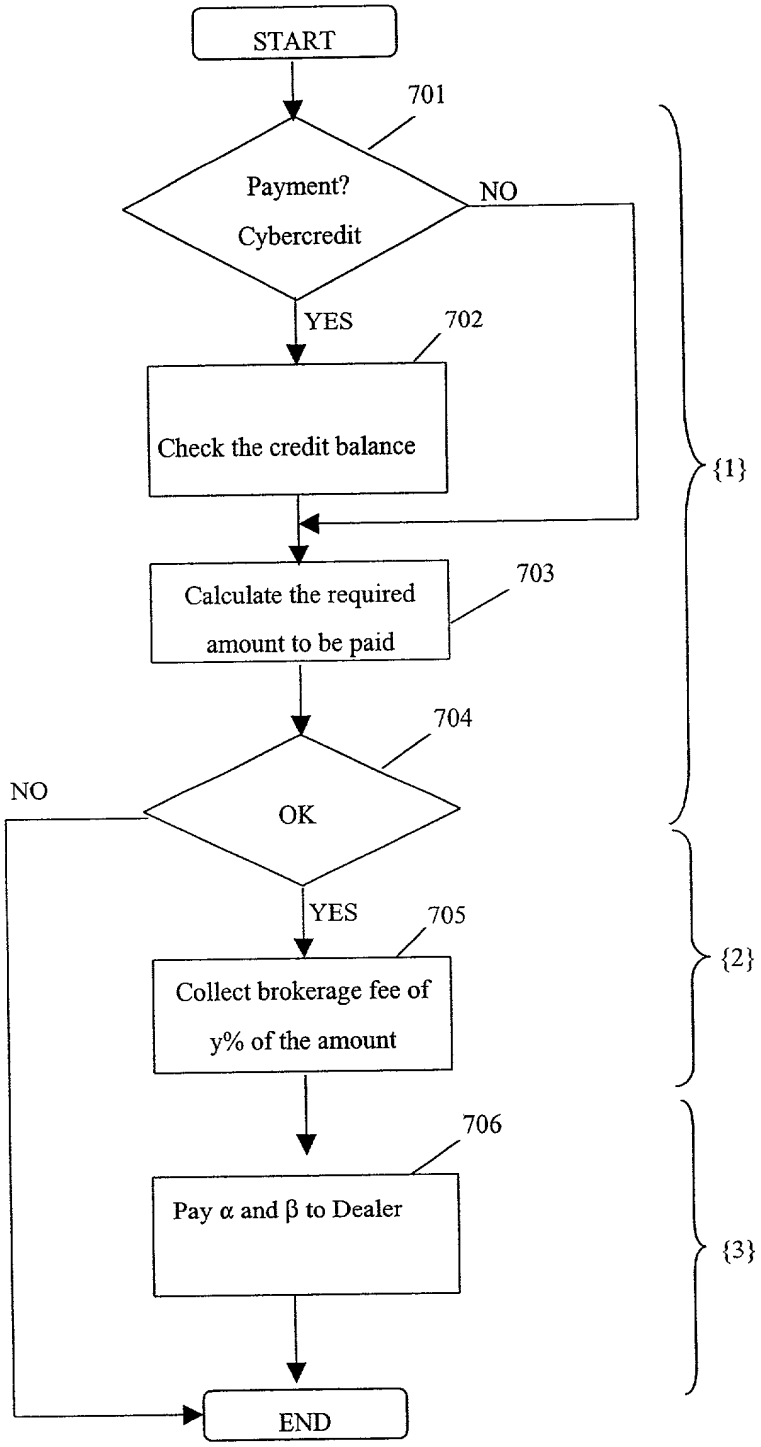

START
701
Payment?
Cybercredit
NO
YES
702
Check the credit balance
Calculate the required amount to be paid
703
704
NO
OK
YES
705
Collect brokerage fee of y% of the amount
706
Pay α and β to Dealer
END
{1}
{2}
{3}

Fig.8

PR≦BC

$$Sch = \frac{PR \cdot \frac{x}{100}}{1 - \frac{x+y}{100}} \quad \{1\}$$

BC<PR<CC

$$Sch = \frac{PR \cdot \frac{x}{100}}{1 - \left(\frac{x}{100} \cdot \frac{CC-PR}{CC-BC} + \frac{y}{100}\right)} \quad \{2\}$$

CC≦PR

$$Sch = \frac{CC \cdot \frac{x}{100}}{1 - \frac{y}{100}} \quad \{3\}$$

PR: Selling price of merchandise selected for purchase
CC: Balance of credit
Sch: Credit-service fee (Service charge)
x: Rate for nomination fee (x% of selling price of merchandise)
y: Rate of brokerage fee (y% of amount received)
BC: Maximum selling price of merchandise purchasable with the balance of credit

$$BC = \frac{CC \cdot \left(1 - \frac{x+y}{100}\right)}{1 - \frac{y}{100}}$$

Fig. 9

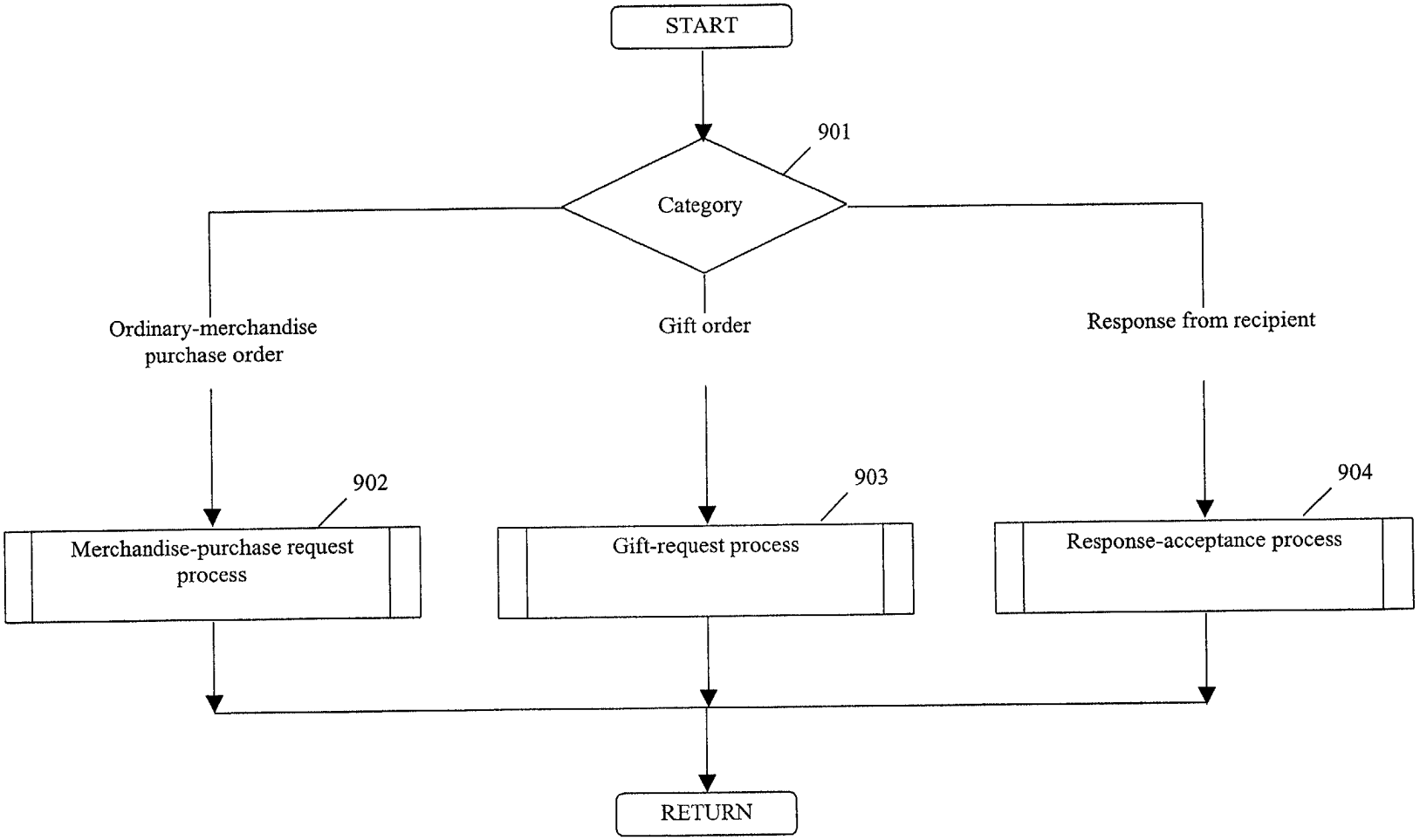

START
901
Category
Ordinary-merchandise purchase order
Gift order
Response from recipient
902
903
904
Merchandise-purchase request process
Gift-request process
Response-acceptance process
RETURN

Fig. 10

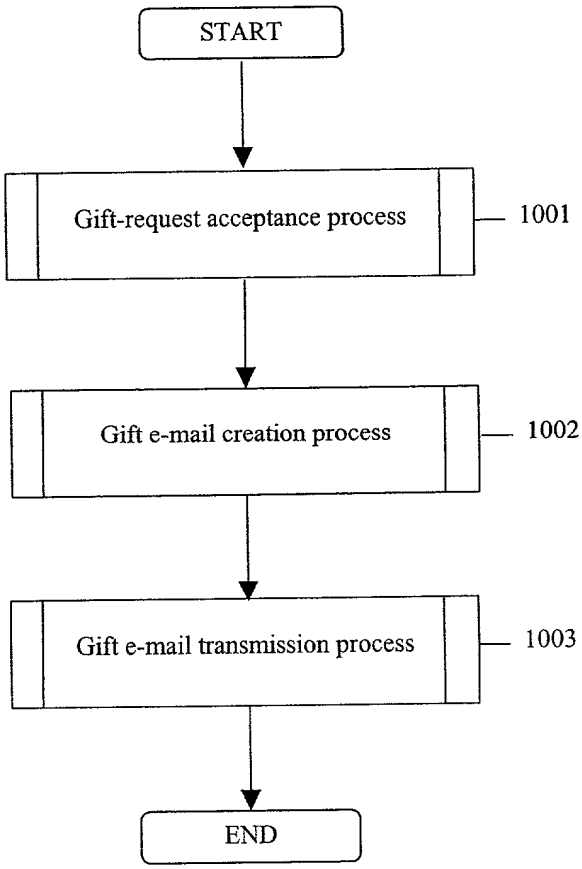

START
Gift-request acceptance process
1001
Gift e-mail creation process
1002
Gift e-mail transmission process
1003
END

Fig. 11

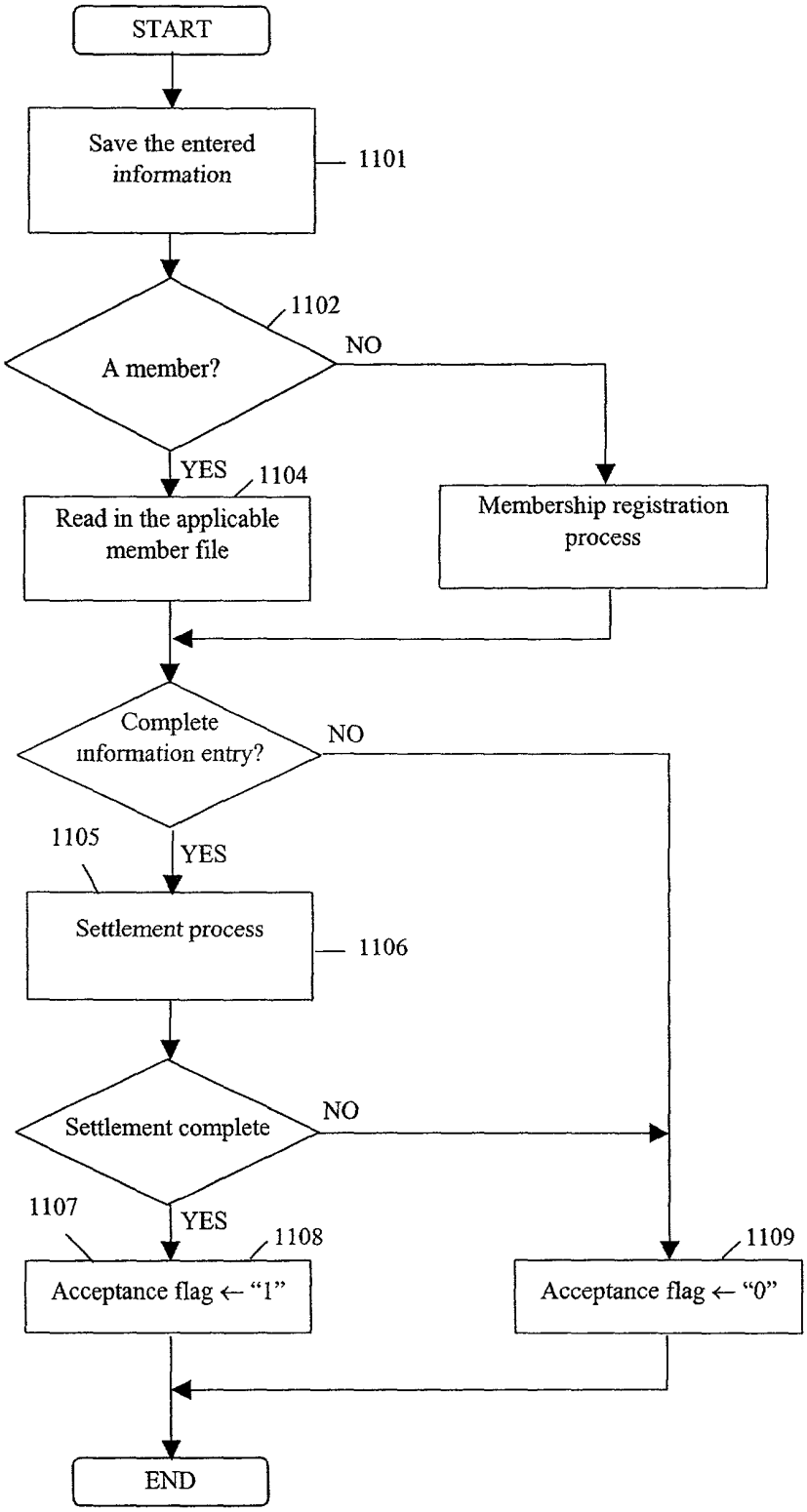

START
Save the entered information
1101
1102
A member?
NO
YES
1104
Read in the applicable member file
Membership registration process
Complete information entry?
NO
1105
YES
Settlement process
1106
Settlement complete
NO
1107
YES
1108
1109
Acceptance flag ← "1"
Acceptance flag ← "0"
END

Fig. 12

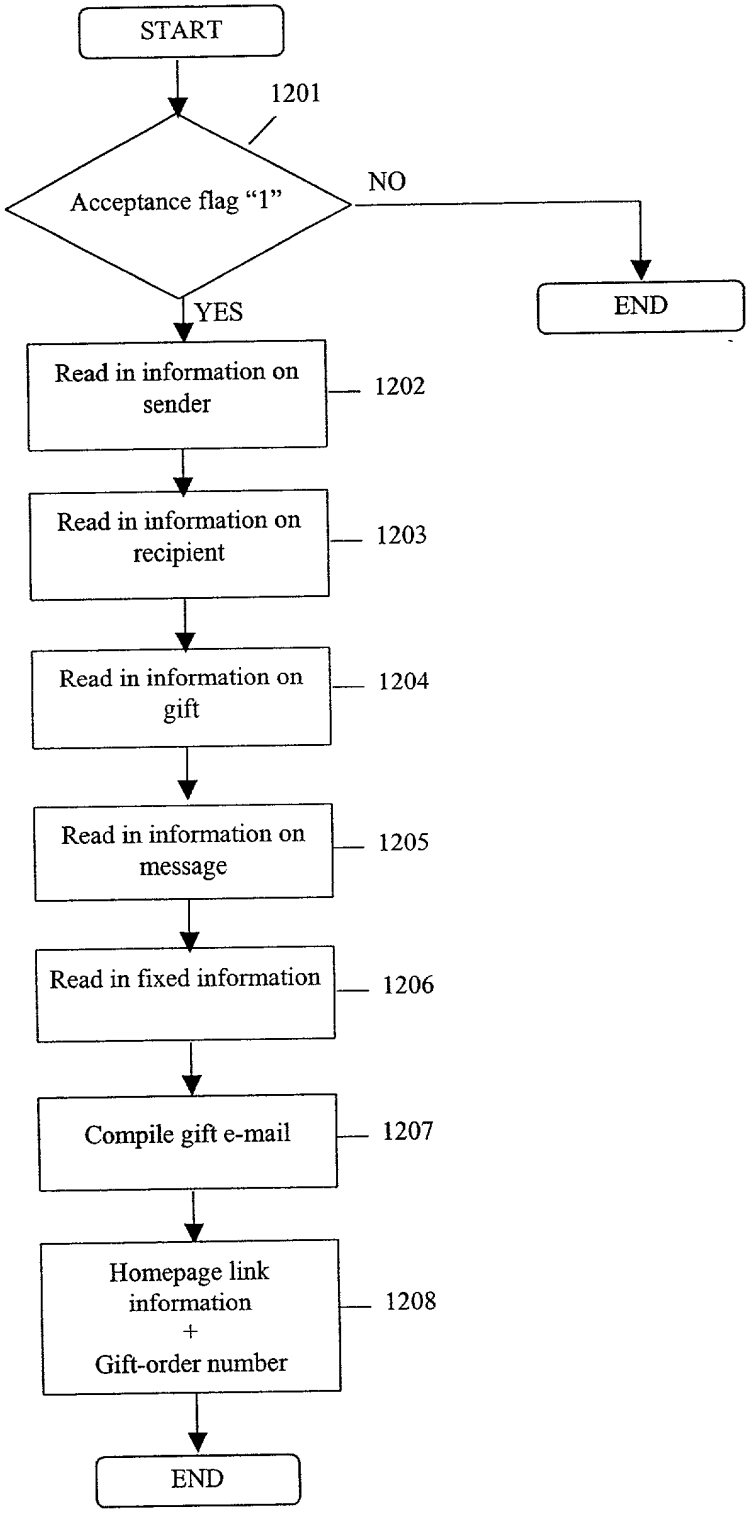

START
1201
Acceptance flag "1"
NO
END
YES
Read in information on sender
1202
Read in information on recipient
1203
Read in information on gift
1204
Read in information on message
1205
Read in fixed information
1206
Compile gift e-mail
1207
Homepage link information
+
Gift-order number
1208
END

Fig. 13

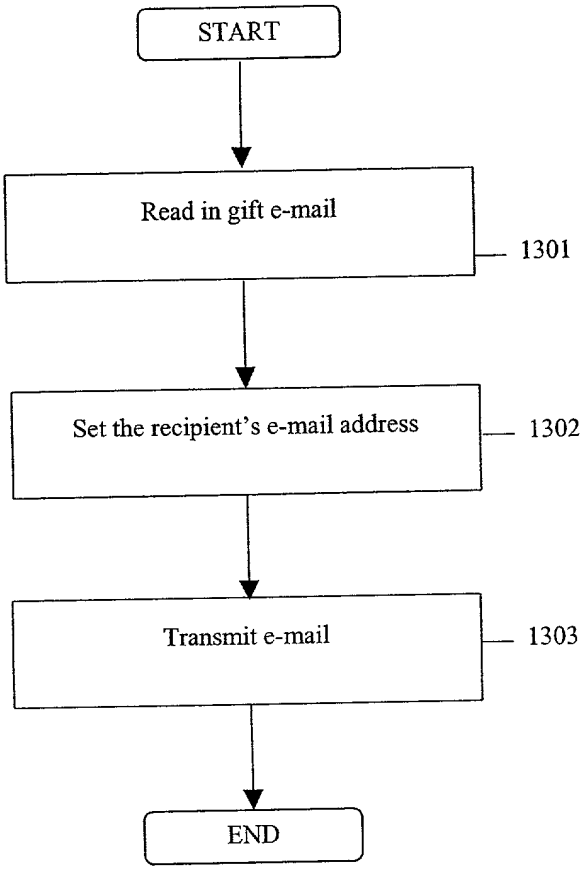

START
Read in gift e-mail
1301
Set the recipient's e-mail address
1302
Transmit e-mail
1303
END

Fig. 14

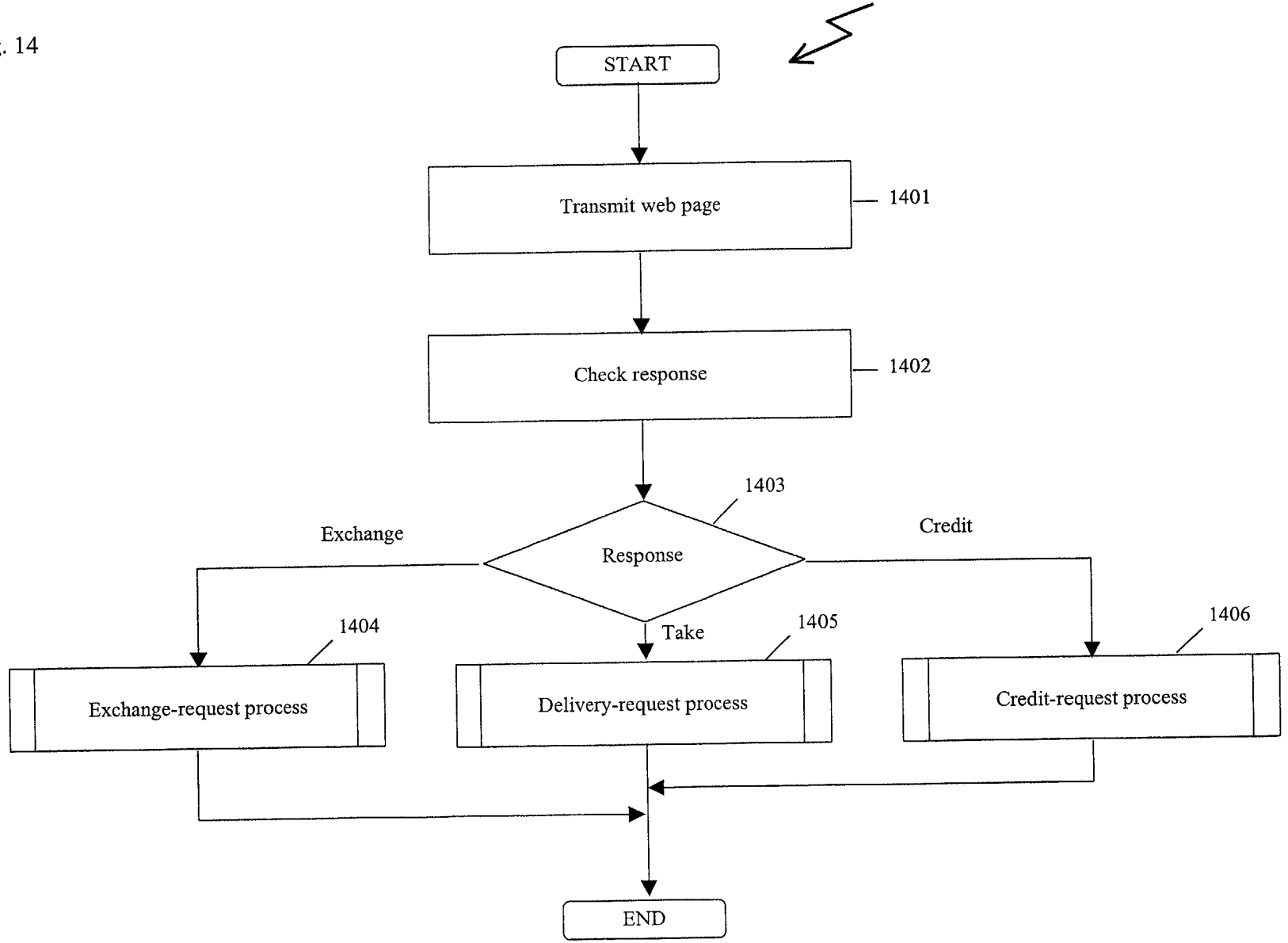

START
Transmit web page
1401
Check response
1402
1403
Response
Exchange
Credit
Take
1404
1405
1406
Exchange-request process
Delivery-request process
Credit-request process
END

Fig. 15

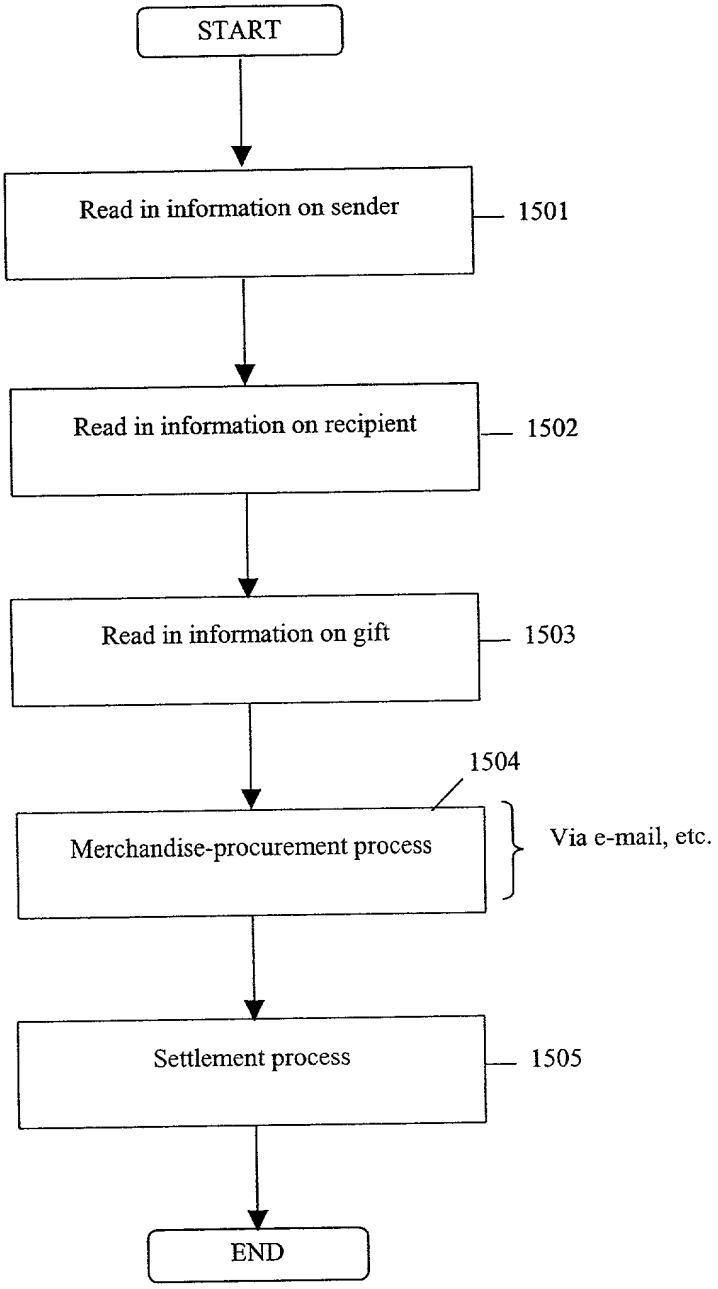

START
Read in information on sender
1501
Read in information on recipient
1502
Read in information on gift
1503
1504
Merchandise-procurement process
Via e-mail, etc.
Settlement process
1505
END

Fig. 16

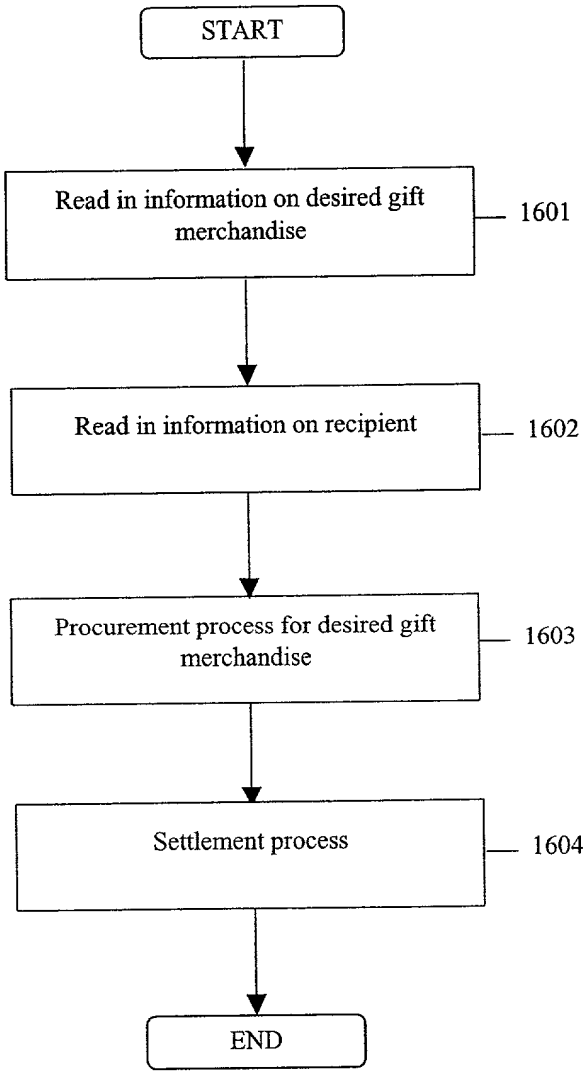

START
Read in information on desired gift merchandise
1601
Read in information on recipient
1602
Procurement process for desired gift merchandise
1603
Settlement process
1604
END

Fig. 17

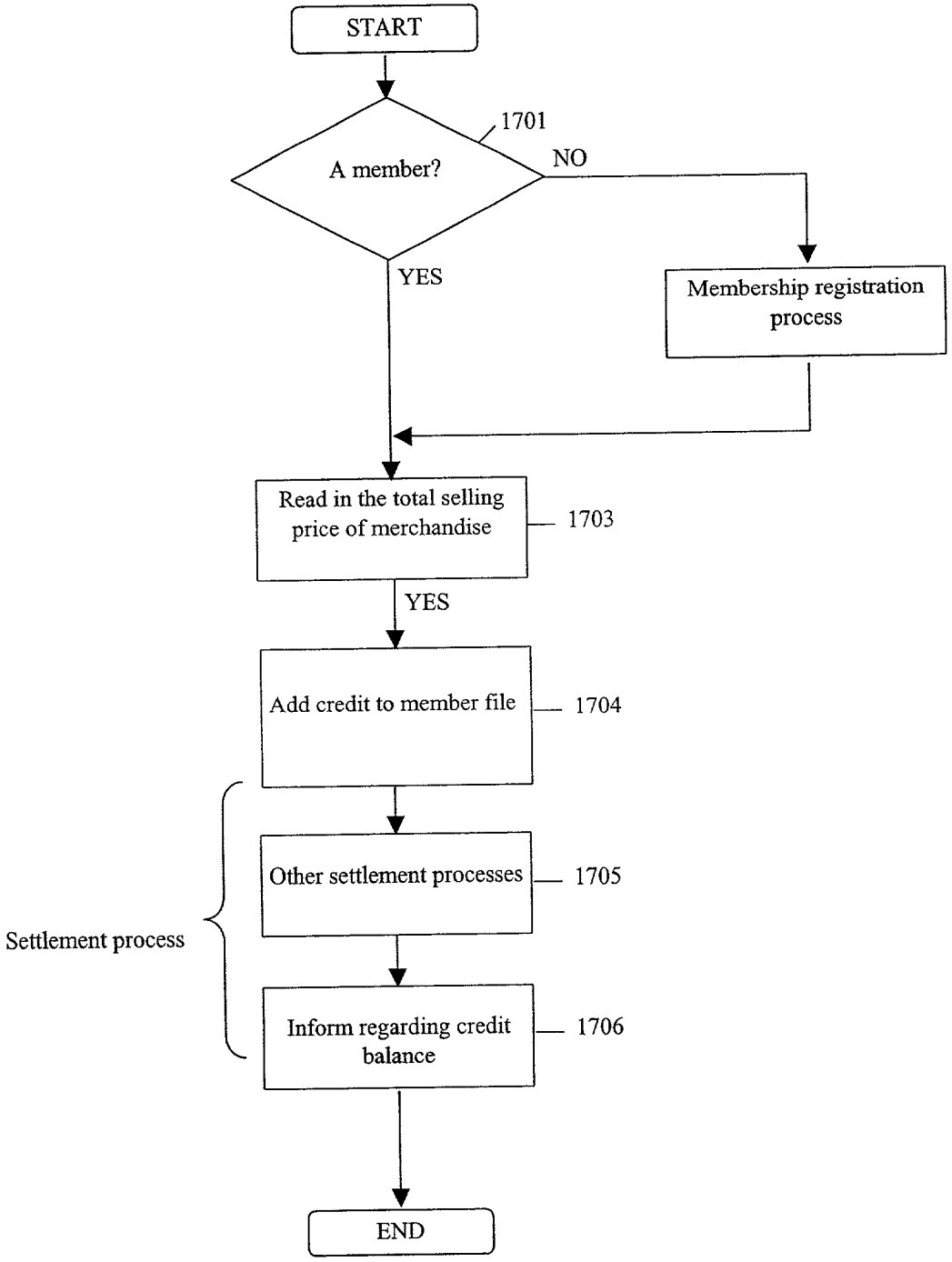

START
A member?
1701
NO
YES
Membership registration process
Read in the total selling price of merchandise
1703
YES
Add credit to member file
1704
Other settlement processes
1705
Settlement process
Inform regarding credit balance
1706
END

Fig. 18

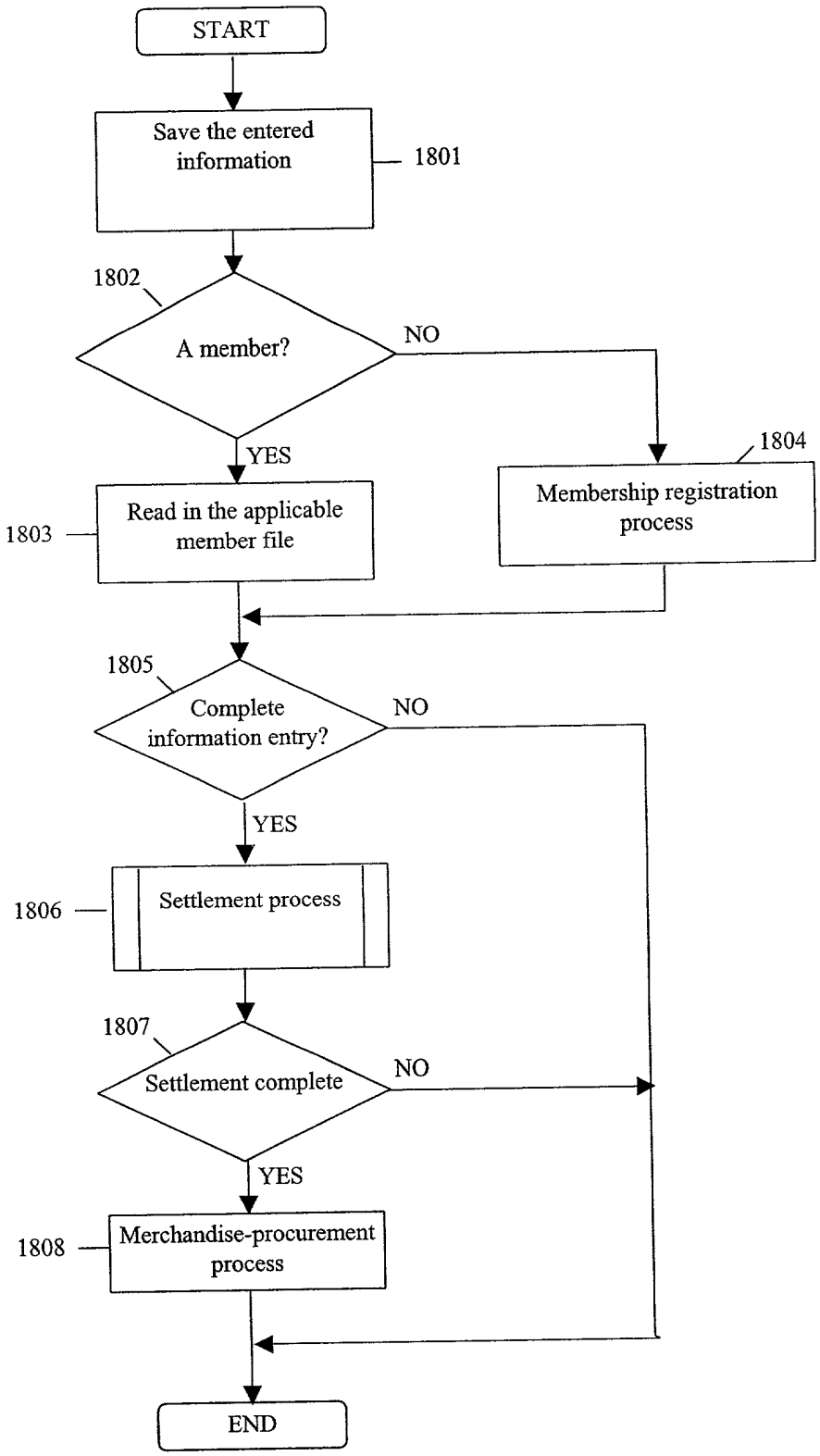
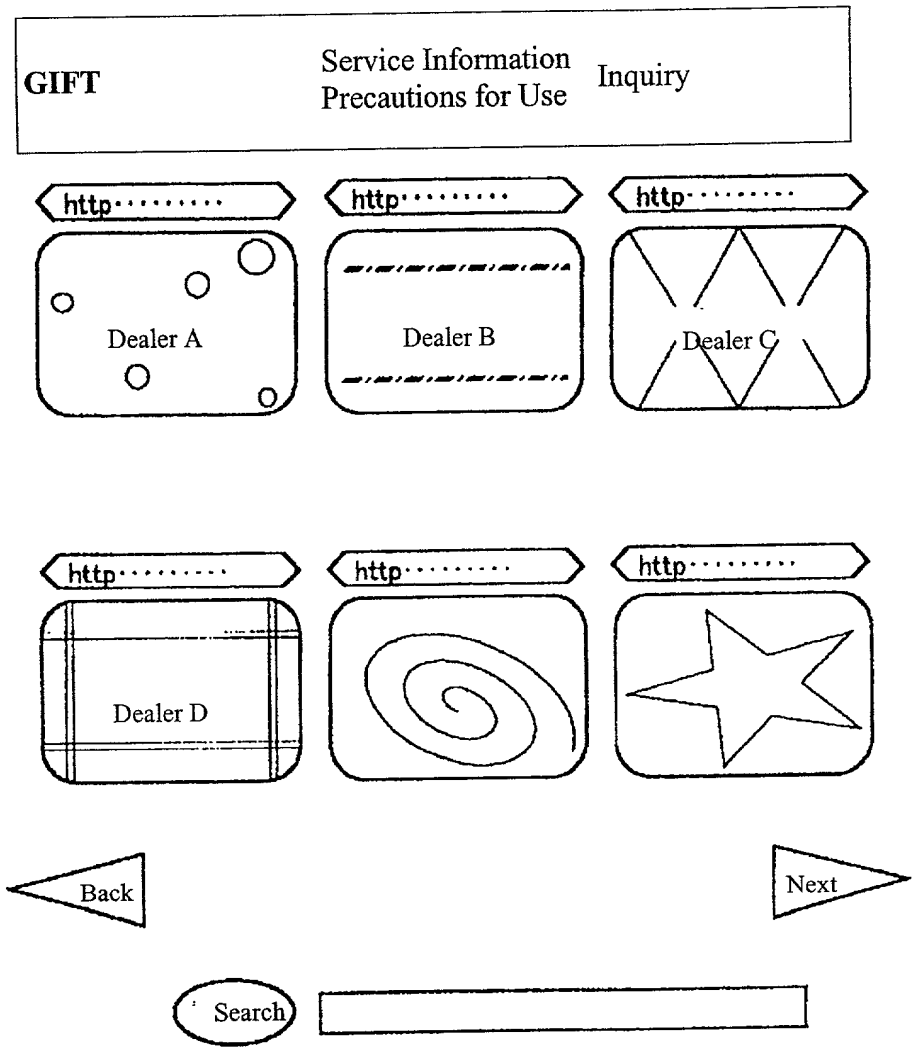

START
Save the entered information
1801
1802
A member?
NO
YES
1804
Membership registration process
1803
Read in the applicable member file
1805
Complete information entry?
NO
YES
1806
Settlement process
1807
Settlement complete
NO
YES
1808
Merchandise-procurement process
END

Fig. 19

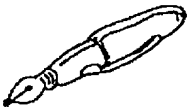


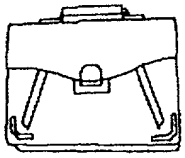
◊ Buy within budget
◊ Select merchandise category
◊ Return to top page

Fig. 20

Handbag	
	Product number A-1234 Selling price 12,000 yen

's wristwatch	
	Product number B-1111 Selling price 30,000 yen

Fountain pen	
	Product number D-0001 Selling price 5,000 yen

Business bag	
	Product number A-5678 Selling price 8,000 yen

Wine set	
	Product number E-9012 Selling price 10,000 yen

Potted cyclamen	
	Product number C-2356 Selling price 2,500 yen

Back Order Next

Fig. 21

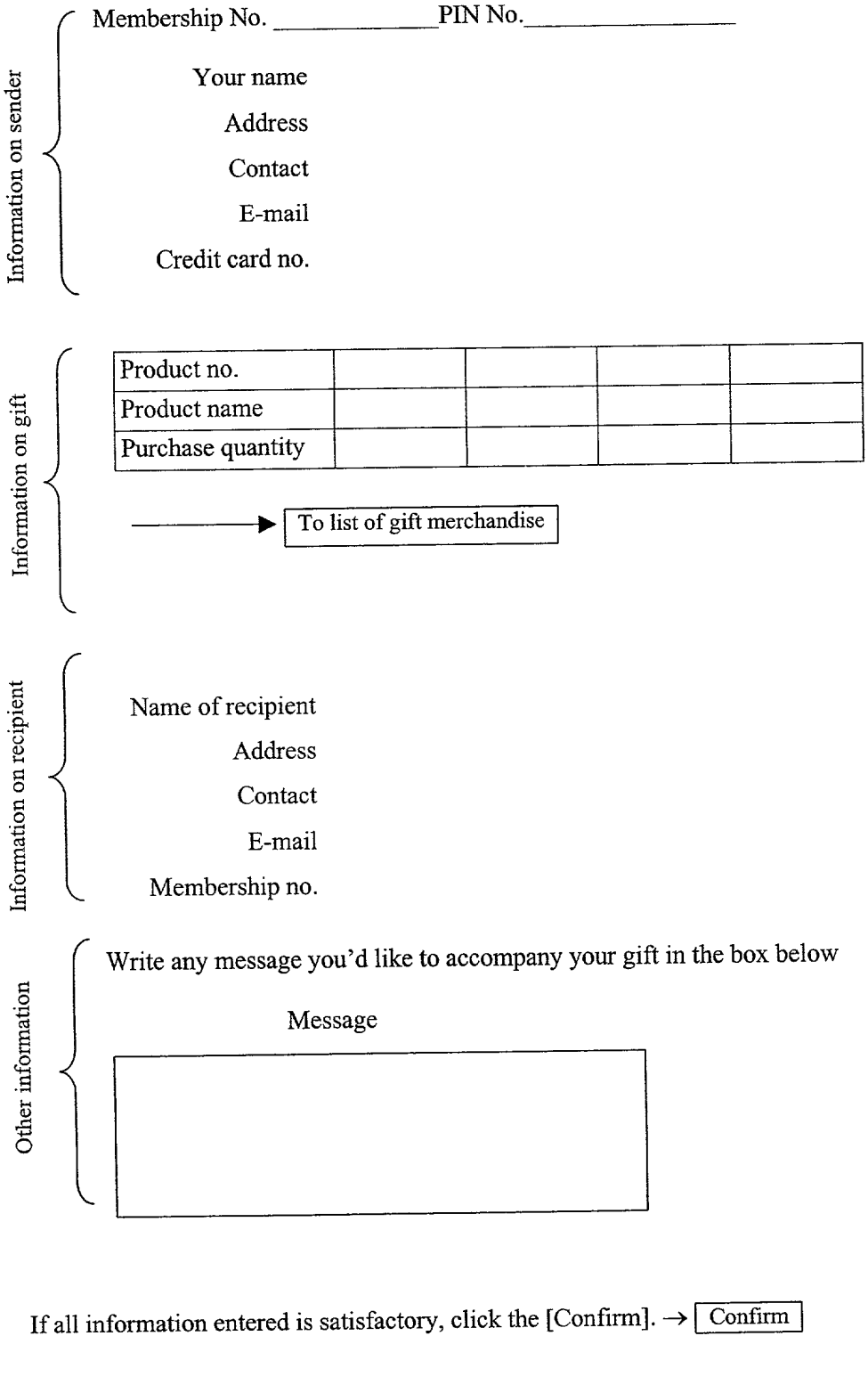

Membership No. _____PIN No._____
Information on sender
Your name
Address
Contact
E-mail
Credit card no.
Information on gift
Product no.
Product name
Purchase quantity
To list of gift merchandise
Information on recipient
Name of recipient
Address
Contact
E-mail
Membership no.
Other information
Write any message you'd like to accompany your gift in the box below
Message
If all information entered is satisfactory, click the [Confirm]. →
Confirm

Fig. 22

Your current Cyber Credit balance:

_____ c.c.

Do you wish to use your Cyber Credit?

Use
Not use

Total amount of merchandise purchase _____ yen
Sch_____

Required amount to be paid _____ yen

Balance of Cyber Credit after payment
_____ c.c.

If the above information is acceptable, click the "Confirm."

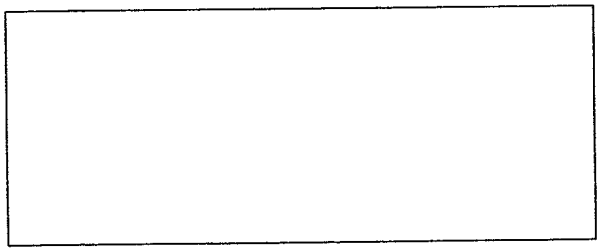
Confirm

Fig. 23

To: _____

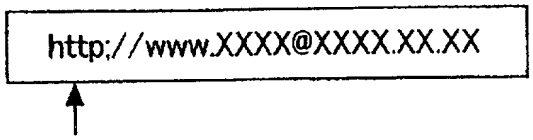
From: _____

Message



We have received a gift order for the following merchandise:
Gift order number XXX-XXX
Product name _____
Product number OOO-OOOO
Please access the following URL and check the merchandise.

We offer you an option to select one service from "Take," "Exchange" and "Credit."



Click here to access our homepage automatically.

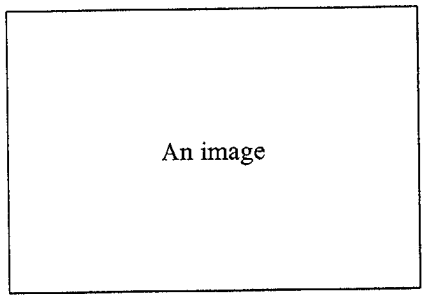
Fig. 24

Welcome to XXXX

You, _____, have the following gift from _____:

Product name _____ Product code OOO-OOOO

Manufacturer _____ Price _____



You may select one of the following services:

- Take
- Exchange
- Credit
- Descriptions of various services

Fig. 25

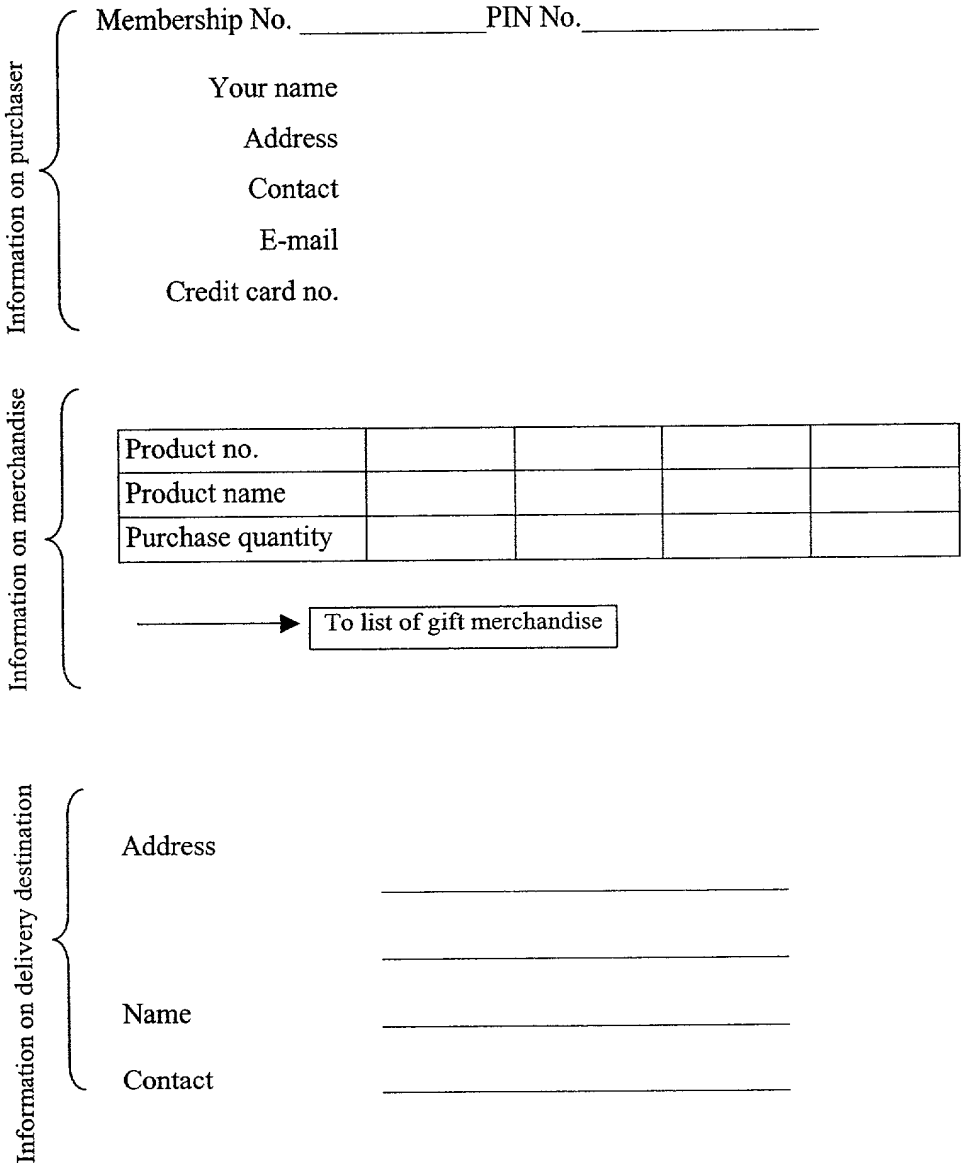

Membership No. _____PIN No._____
Information on purchaser
Your name
Address
Contact
E-mail
Credit card no.
Information on merchandise
Product no.
Product name
Purchase quantity
To list of gift merchandise
Information on delivery destination
Address
Name
Contact

Fig. 26

Your current Cyber Credit balance:

_____ c.c.

Do you wish to use your Cyber Credit?

Use
Not use

Total amount of merchandise purchase _____ yen

Required amount to be paid _____ yen

Balance of Cyber Credit after payment

_____ c.c.

If the above information is acceptable, click the "Confirm."

Confirm

Fig. 27

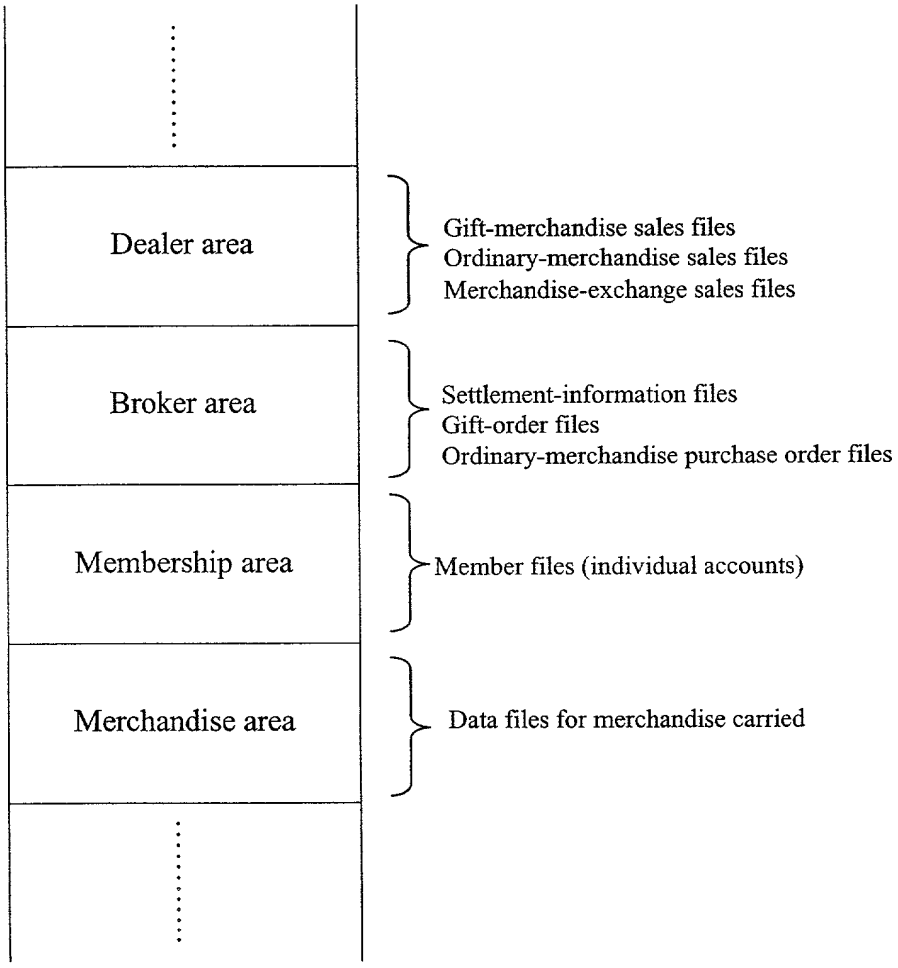
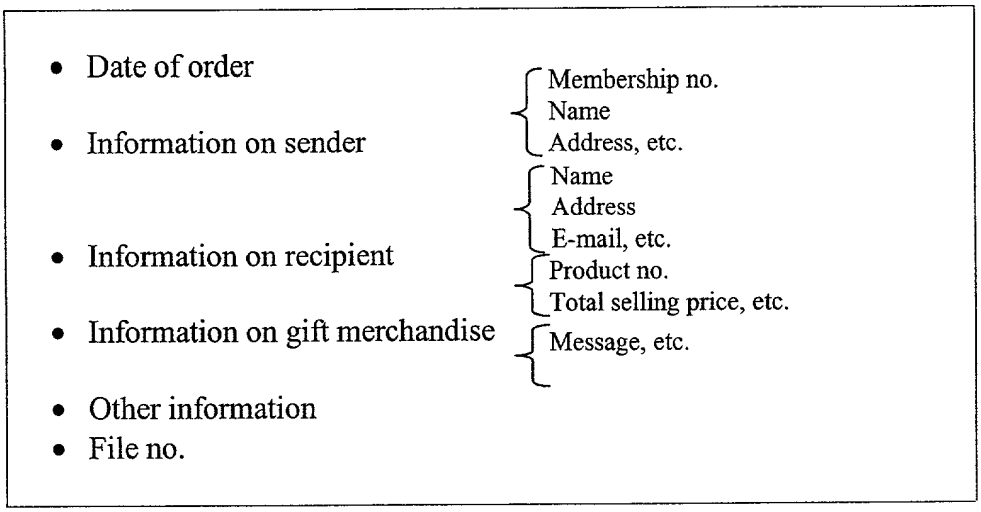

Dealer area
Gift-merchandise sales files
Ordinary-merchandise sales files
Merchandise-exchange sales files
Broker area
Settlement-information files
Gift-order files
Ordinary-merchandise purchase order files
Membership area
Member files (individual accounts)
Merchandise area
Data files for merchandise carried

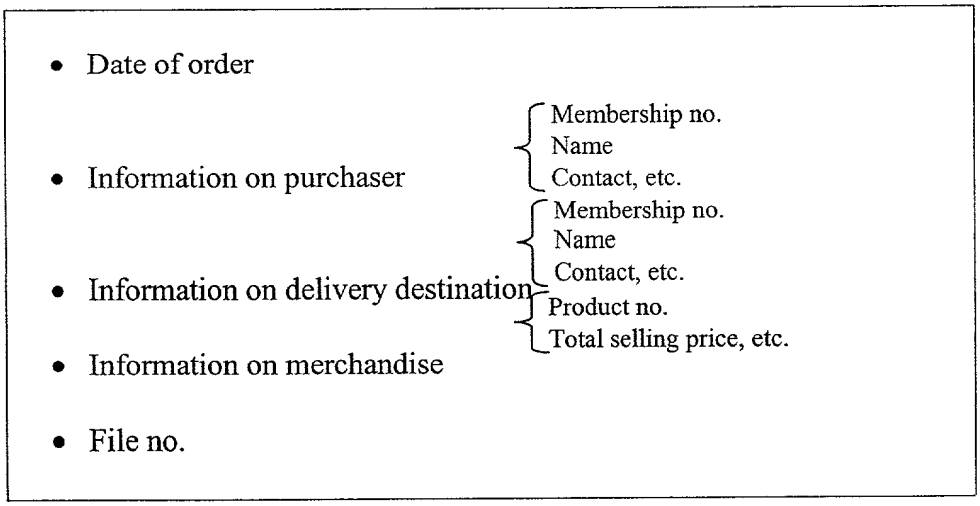
Fig. 28

Product name	Product category	Product no.	Dealer	Selling price	Image-data information
Handbag	B-12	A-1234	OOOO Company	12,000 yen	abc0027
Business bag	B-124	A-5678	OOOO Company	8,000 yen	jsu0017
Men's wristwatch	W-111	B-1111	OOOO Company	30,000 yen	jdd0017
Potted cyclamen	F-008	C-2356	OOOO Company	2,500 yen	jtw8476
Fountain pen	P-222	D-0001	OOOO Company	5,000 yen	bcd3456
⋮	⋮	⋮	⋮	⋮	⋮
-	D-467	x-0022	OOOO Company	20,000 yen	def1234

Fig. 29



Content of the gift-order file



Content of the merchandise-purchase order file

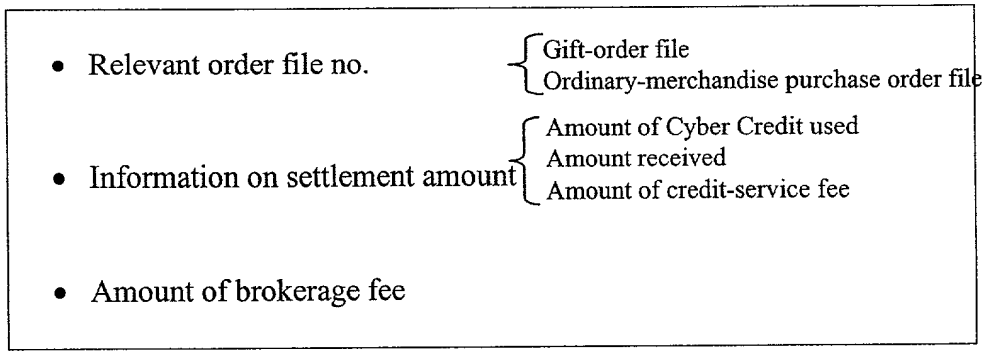


Fig. 30

Membership No.:	002564	PIN No.: ****
Name:	ΔΔ ΔΔΔ	
Address:	○○○○ Shinjuku-ku Tokyo	
Telephone No.:	03 - □□□ - □□□□	
E-mail:	abcdefg@xyz.ne.jp	
Card Information:	1111-1234-5678-901	
Cyber Credit Balance:_____ c.c.		

Fig. 31

Date	Applicable file no.	Information on sender	Information on recipient	Product no.	Selling price	Response		Amount to be paid	
						Date	Type	Nomination fee	When "take" is confirmed
6/x	OOOO O	....	....	O-OOO	xxxx yen	6/y	T	xxx yen	xxx yen
6/x	OOOO O	....	....	O-OOO	xxxx yen	6/y	C	xxx yen	0 yen
6/x	OOOO O	....	....	O-OOO	xxxx yen	6/y	E	xxx yen	0 yen
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
6/x	OOOO O	....	....	O-OOO	xxxx yen	6/y	C	xxx yen	0 yen
							Total	xxx yen	xxxx yen

(a) Figure showing the contents of the gift-merchandise sales file

(b)

Date	Applicable file no.	Information on purchaser	Information on delivery destination	Product no.	Selling price	Amount to be paid
6/x	OOOO O	....	....	O-OOO	xxx yen	xxx yen
⋮	⋮	⋮	⋮	⋮	⋮ ⋮	⋮ ⋮
6/x	OOOO O	....	....	O-OOO	xxx yen	xxx yen
				Total		

(b) Figure showing the contents of the merchandise-purchase sales file

Date	Applicable file no.	Information on purchaser	Information on delivery destination	Product no.	Selling price	Amount to be paid
6/x	OOOO O	....	....	O-OOO	xxx yen	xxx yen
⋮	⋮	⋮	⋮	⋮	⋮ ⋮	⋮ ⋮
6/x	OOOO O	....	....	O-OOO	xxx yen	xxx yen
				Total		

(c) Figure showing the contents of the exchange-sales file

Fig. 32

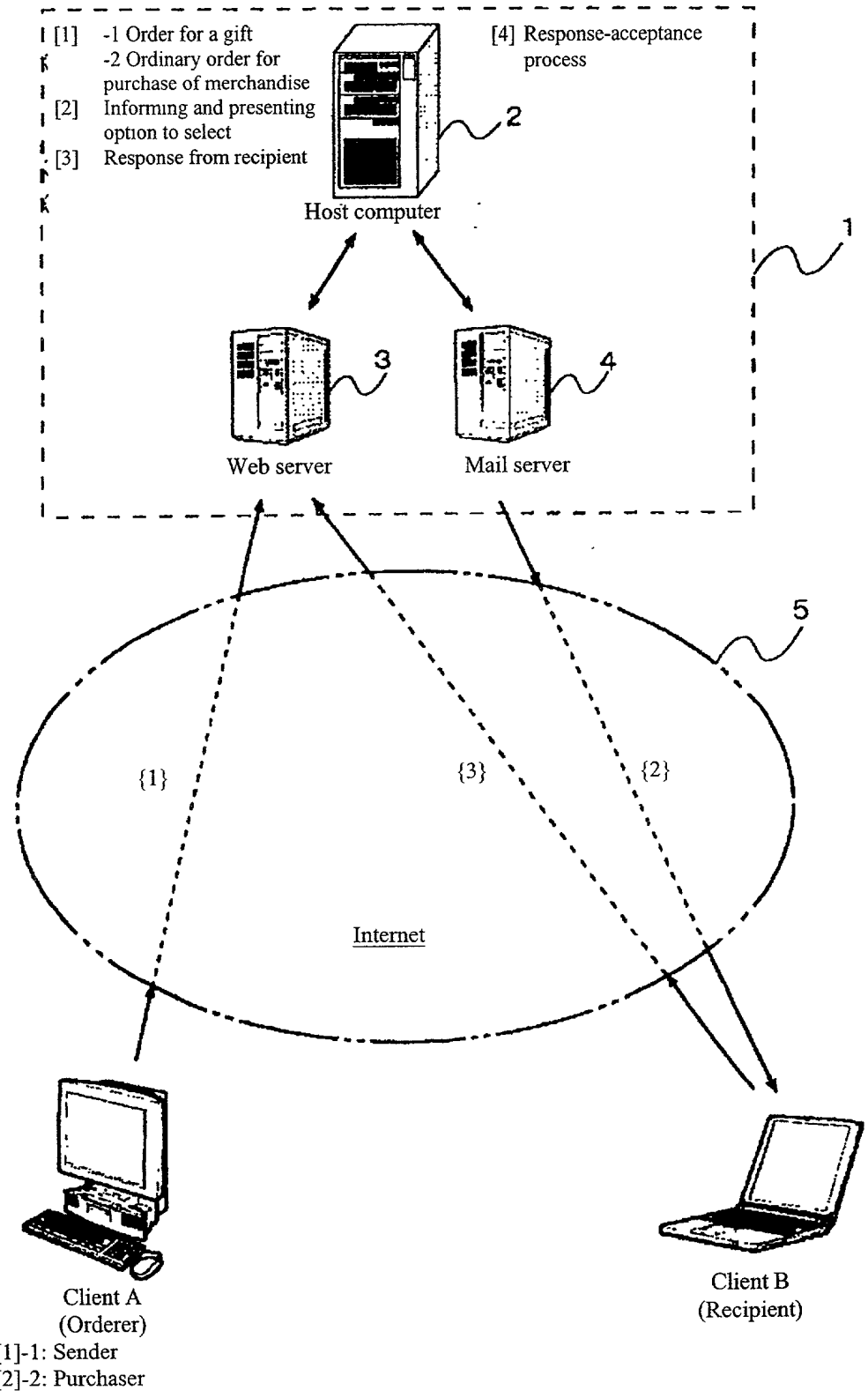

[1] -1 Order for a gift
-2 Ordinary order for purchase of merchandise
[2] Informing and presenting option to select
[3] Response from recipient
[4] Response-acceptance process
2
Host computer
1
3
4
Web server
Mail server
5
{1}
{3}
{2}
Internet
Client A
(Orderer)
[1]-1: Sender
[2]-2: Purchaser
Client B
(Recipient)

Fig. 33

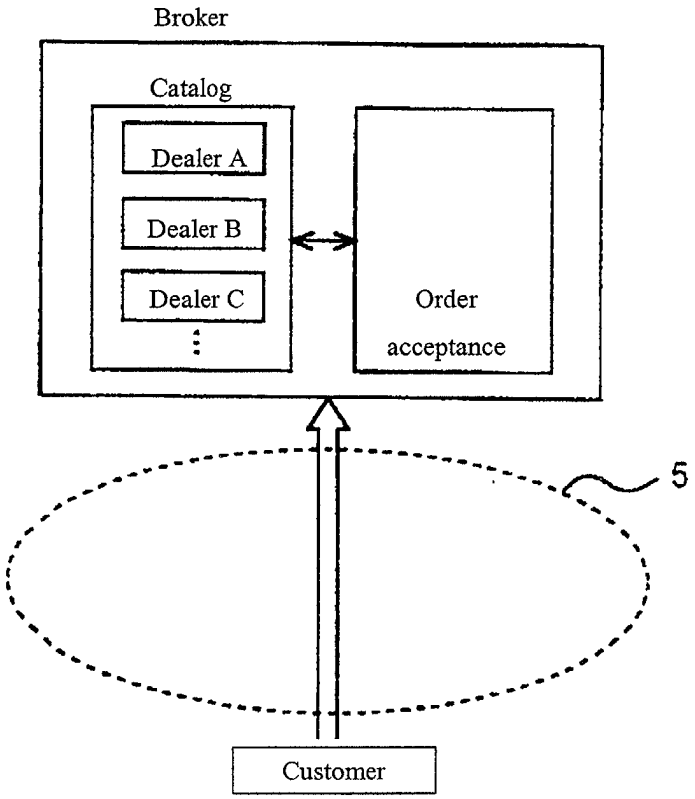


Fig. 33(a)

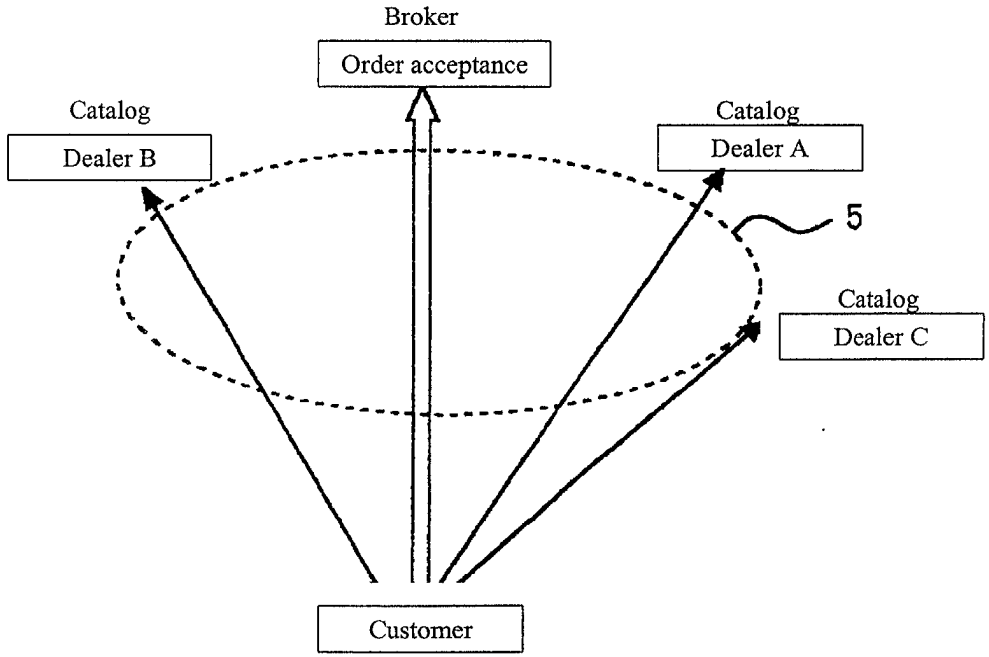


Fig. 33(b)